CD TRAVELER

USER'S MANUAL

W/ CD-ROM+ CARD

EXP COMPUTER, INC.

EXP MEMORY PRODUCTS.

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EXP COMPUTER INC., AND EXP MEMORY PRODUCTS("EXP") warrants that the Quadruple Speed Portable CD-ROM ("products") manufactured or distributed by EXP to be free from failures due to defects in materials or workmanship for full one year from the date of purchase of the products.

This warranty is void if the product is damaged by abnormal or improper use or by accident, abuse or if any attempt to repair or modify the product without authorization from EXP. Your sales receipt or invoice, showing the date of purchase and the name of the authorized reseller, is your proof of the date of purchase. During the warranty period, EXP will at its option, replace or repair, at no charge, the product which in its opinion is defective.

Before you return the failed products, contact EXP. You must obtain a Return Merchandise Authorization (RMA) number by calling EXP Computer Inc. At (516) 496-7629. The RMA number should be displayed on the outside of the returned package and on the accompanying packing list. EXP cannot be held responsible for any package returned without the RMA number. You are responsible for packaging, providing proof of the date of purchase and the shipping cost of the failed product to EXP Computer, Inc. You are responsible for mailing the warranty registration card. The warranty claims may not be honored if there is no corresponding registration card on file at EXP.

IN NO EVENT WILL EXP BE LIABLE FOR ANY DIRECT, INDIRECT, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGE, INCLUDING LOSS OF PROFIT, LOSS OF SAVINGS; OR ANY OTHER DAMAGES CAUSED BY PRODUCT OR FAILURE OF THE PRODUCT TO PERFORM.

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FCC COMPLIANCE STATEMENTS

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

Reorient or relocate the receiving antenna.

Increase the Distance between the equipment and receiver.

Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

Consult the dealer or an experienced radio/TV technician for help.

CAUTION

CHANGE OR MODIFICATIONS NOT EXPRESSLY APPROVED BY PARTY RESPONSIBLE FOR COMPLIANCE COULD VOID THE USER'S AUTHORITY TO OPERATE THE EQUIPMENT.

CONTENTS

precautions

Read this section carefully before starting to use the portable PCMCIA CD-ROM.

CD-ROM DRIVE

- Do not place heavy objects on the CD-ROM drive.
- Do not shake or subject to intense vibration.
- Keep disc cover closed to protect from dust.
- Do not disassemble the player.
- Do not spill liquid on the player.
- Do not touch the lens.
- Only clean the outside of the player with a soft, dry cloth.
- Clean the lens with a dry cotton swab or a lens blower.
- Do not expose the player to direct sunlight or heat. Especially do not leave it in a hot automobile.
- Condensation may form on the lens if the CD-ROM is suddenly removed from a cold temperature setting and placed in a much warmer environment. This may result in the lens' inability to properly read the disc. If this occurs, remove the disc and leave the power on. After one hour, reinsert the disc and play again.

CD

- Handle the disc by the edges as mush as possible. Do not touch the surface of the disc.
- Do not scratch or smudge the surface of the disc. Do not attach a label to the disc.
- Do not bend the disc.
- Do not expose the disc to the direct sunlight. Do not store the disc in a room with high temperature or high humidity.
- To avoid dust, scratches, bending, etc., always store the disc in its case.
- For best results, wipe the disc with a soft, dry cloth in a circular direction. Do not use benzine, record cleaner, static electricity prevention fluid, or any other liquid as it may damage the disc.

CD-ROM PART NAMES AND FUNCTIONS

TOP PANEL OF THE CD-ROM DRIVE:

① **Open button:**

Press this button to open the disc cover.

② **On/Busy led:**

- This indicator will light dimly with a green LED when the power is on.
- This LED will light brightly when the drive is ready.
- This LED will blink when the drive is accessing the disc.
- This LED will blink every 2 seconds when the disc cover is opened.

③ **External Power led:**

- This LED will light when AC adapter or batteries are used.
- This LED will blink when input power is low.

④ **Play/Pause button:** (for CD audio operation only)

- When the drive is in stop state, pressing this button will activate the drive to start playing.
- When the drive is in play state, pressing this button will make it pause.

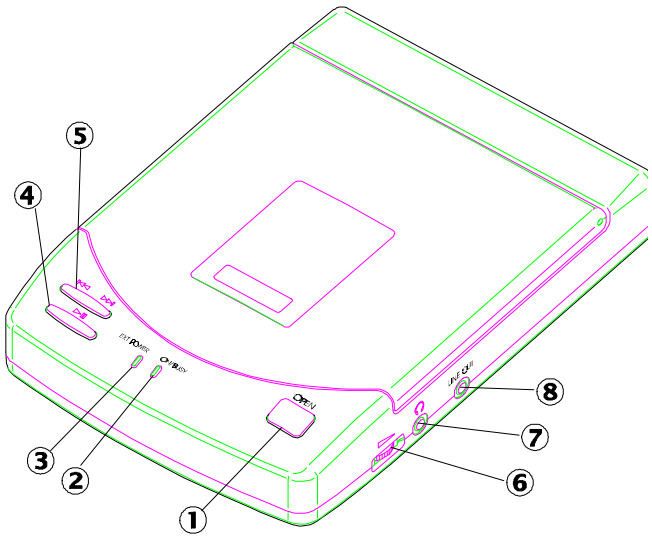


Figure 1

⑤ **Next/Previous button:** (for CD audio operation only)

- When the drive is in play state, pressing the right edge of the button will skip to the next track.
- When the drive is in play state, pressing the left edge of the button will skip to the previous track.

⑥ **Headphone Volume Control knob:**

Turn this rotary knob to adjust the headphone volume.

⑦ **Headphone jack:**

This is a 3.5mm audio headphone jack.

⑧ **Line-out jack:**

Audio outputs signal to an amplifier.

REAR PANEL OF THE CD-ROM DRIVE:

① **PCMCIA Interface connector:**

This connector connects to the PCMCIA interface card.

② **Power Source switch:**

- Set the switch to “PC” to select the power source from PCMCIA socket.
- Set the switch to “DC/BATT” to select the power source from AC adapter or batteries.

Please refer to next section titled “CD-ROM POWER SOURCE” for details.

③ **DC-IN jack:**

This jack connects to an AC adapter.

④ **Power button:** (for stand-alone CD player operation only)

Press this button to power on/off the drive when it is used stand-alone as an audio CD player.

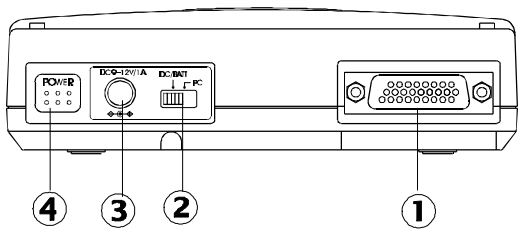


Figure 2

BOTTOM OF THE CD-ROM DRIVE:

① **PCMCIA Interface Card Holder:**

Store the PCMCIA interface card when not used.

② **Battery Lid:**

Slide and lift up the lid to install or remove the batteries.

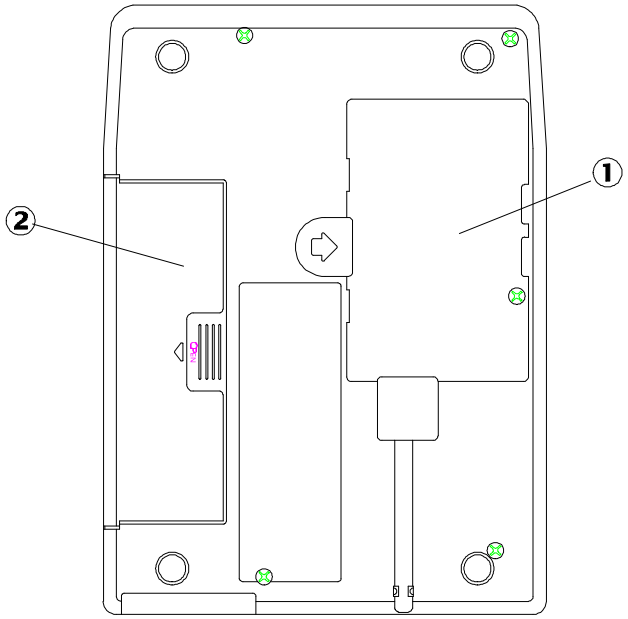


Figure 3

CD-ROM POWER

There are three power source options to choose to power the CD Traveler:

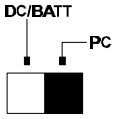
1. PCMCIA socket power direct
2. AC adapter
3. Battery.

However, you can use only AC adapter or batteries when the CD-ROM is used as a stand-alone CD player.

SELECTING THE POWER SOURCE

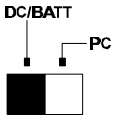
The POWER SOURCE SWITCH (as shown in ② of Figure 2) is for selecting which power source to use.

POWER SOURCE SWITCH is set to "**PC**" (Figure 4.a)



The PCMCIA power direct is selected. Thus, the CD-ROM will obtain power from PCMCIA socket of your computer, there for no external power (AC or batteries) will be required. In the event that your computer can not supply enough power to operate the PCMCIA CD-ROM drive, then you will have to use external power as described below. **Fig. 4.a**

POWER SOURCE SWITCH is set to "**DC/BATT**" (Figure 4.b)



The external power source is selected. In this condition, you must apply AC adapter or batteries to CD-ROM drive. Please note that the AC adapter has a priority over the battery in powering the CD-ROM drive. In other words, if you connect the AC adapter, the CD-ROM drive will draw power from the adapter regardless if the batteries are installed.

Fig.4.b

NOTE: If you choose to use external power, remember to apply external power *before* enabling the PCMCIA interface card (booting the computer or hot-inserting the card). If you failed to apply the external power first, the drive status will remain NOT READY even though the external power is applied later; it may also result in CD-ROM drive abnormal condition. In this case, reboot your computer again to enable the PCMCIA CD-ROM drive.

CAUTION

Do not shift the POWER SOURCE SWITCH when the PCMCIA CD-ROM is powered on.

CONNECTING THE AC ADAPTER

Remove the PCMCIA interface card from your computer.

2.

3. Attach the AC adapter to the AC outlet.

CAUTION

Use only the AC adapter provided with this unit or refer to the rear panel of the drive for the correct AC adapter. Using the incorrect AC adapter will cause permanent and unpredictable damage to the CD-ROM.

INSTALLING THE BATTERIES

The CD-ROM requires six AA size batteries (not included) for operation. The Alkaline batteries may last longer than other batteries. You may also use Ni-Cad rechargeable batteries which have a shorter service life. Neither the rechargeable batteries nor the charger are provided with this package.

Follow the instruction below to install the batteries,

1. Remove the disc from the CD-ROM.
2. Disconnect the PCMCIA interface card from your computer, and disconnect the AC adapter from the "DC-IN" jack.
3. Turn over the CD-ROM drive and place it horizontally.
4. Press and slide the battery lid in the direction of the arrow to remove it.
5. Install six fresh AA batteries (as shown in Figure 5), and make sure the polarities match the diagram.
6. Replace the battery lid.

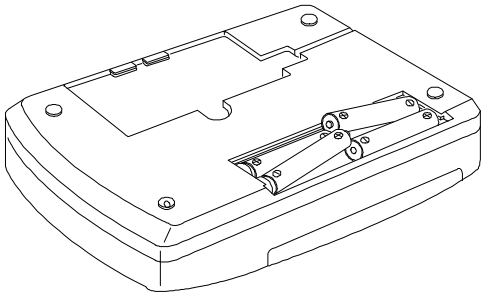


Figure 5

POWER SWITCH

Stand-alone CD player

Pressing the POWER button (as shown in ④ of Figure 2) will switch the CD drive power 'on' or 'off'. The drive also has an inactivity timer which automatically powered off if it has been idle more than 40 seconds.

CD-ROM operation

The POWER button will not function because the drive power is controlled by the computer.

ON/BUSY LED (as shown in ② of Figure 1)

The LED indicate four status of the CD-Drive:

1. Power On: The LED will light dimly
2. Ready State: The LED will light brightly.
3. Accessing: The LED will blink when the drive is accessing the disc.
4. Cover Open: The LED will blink every 2 seconds.

EXT POWER LED (as shown in ③ of Figure 1)

The LED indicates the external power state:

1. ON : The power supply is in the normal condition.
2. OFF: If you choose to use PCMCIA power direct.
3. BLINKING: External power is in use but power is low.

   Low power may be caused by a malfunctioning AC adapter or when the batteries are reaching the end of their service life. Check your AC adapter to see if it is defective or improperly connected, or replace the old batteries with new ones.

NOTICE

- Use only the AC adapter provided with this unit or refer to the rear panel of the drive for the correct AC adapter specification.
- If you are not using the unit with the AC adapter for a long period of time, disconnect it from the AC power outlet.
- Do not mix old and new batteries, or different type of batteries (Ni-Cad and alkaline, etc.)
- Always remove old, weak or worn-out batteries promptly and dispose of them properly.
- If you do not use this unit for a long period of time, remove the batteries to avoid the possible battery leakage.
- Thoroughly clean the battery compartment before inserting new batteries.

HARDWARE INSTALLATION

Before you begin, make sure you turn OFF all power to your system before connecting the PCMCIA CD-ROM to your computer.

1. Turn over the CD-ROM drive, locate the PCMCIA interface card at the back of the CD-ROM drive. Lift and take out the card from the holder as shown in Figure 6.
2. Place the CD-ROM drive upright in the horizontal position.
3. Make sure that the PCMCIA interface cable is firmly connected to the interface connector at the back panel of the CD-ROM drive.
4. Refer to the computer user's manual to locate your computer's PCMCIA slot.
5. Align the PCMCIA interface card with the arrow sign pointing towards the computer's slot. (Please note that the card is keyed to guide for proper insertion.)
6. Slowly insert the PCMCIA interface card into the slot and press firmly until the connector is seated.
7. Check the power source switch set it according to power source.

   PCMCIA Socket => PC

   AC adapter or Battery => DC/BATT

   (Make sure the AC adapter is properly connected or the batteries are installed)
8. Turn the system ON to install the PCMCIA CD-ROM device driver.

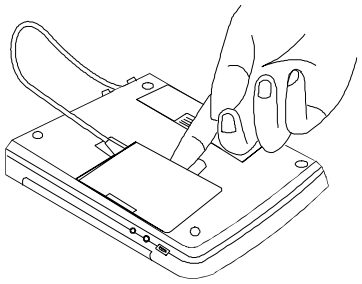


Figure 6

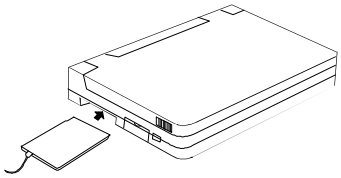


Figure 7

CAUTION

Connect the PCMCIA interface cable to CD-ROM drive before inserting the PCMCIA interface card into your computer. DO NOT connect/disconnect the PCMCIA interface cable to/from the CD-ROM drive while the card is inserted and the system is in the power-on state.

SOFTWARE INSTALLATION FOR DOS/WINDOWS 3.1

AUTOMATIC INSTALLATION

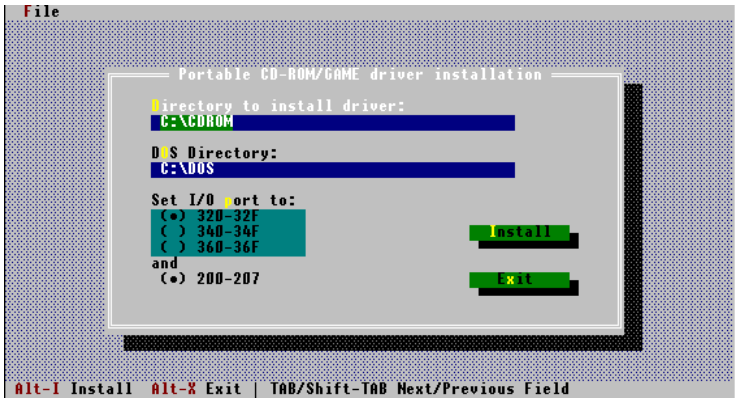
This INSTALL program helps you install the device driver into your computer easily. Please follow the instructions below to proceed with the automatic installation.

1. Insert the device driver diskette into the floppy disk drive on your computer

2. Change the working directory to the floppy drive containing the device driver diskette by typing "**A:**" or "**B:**", then press ENTER.

3. At the DOS prompt (A:\> or B:\>), type "**INSTALL**" followed by the ENTER key.

4. Press ENTER or click on the OK button to continue. When the opening screen appears, a dialog box will be displayed for you to specify the 1), directory to install the device driver to; 2), the DOS directory to specify the location of the MSCDEX driver, and 3), the I/O port desired for the CD-ROM. Enter the directory you want to install the driver to and press the TAB key to forward to the next field to indicate the DOS Directory. Press the TAB key again to set the I/O port. The default setting for the I/O ports are (320-32F and 200-207). After completing the selections, click on the **Install** button to continue.



NOTE:

1. INSTALL.EXE is only for DOS/Windows 3.x Mode, DO NOT use it under Windows 95, unless you want to use this device under pure MS-DOS. Please see **APPENDIX B** for detail.

2. If the device is not working properly, please refer to **APPENDIX D** to see if your system's PCMCIA driver has been installed correctly.

MANUAL INSTALLATION

You may manually install the device driver if the default setting conflicts with your system. Try the following procedure to complete the manual installation.

1) Copy the file named EXPCDG.EXE to a directory on your main hard disk. (i.e. C:\CDROM).
2) Edit the config.sys add the following line at the end of the file.

   DEVICE=[drive] [path] EXPCDG.EXE /P:320 [/G]

   /P is used to set the I/O ports, and the valid numbers are 320, 340 and 360. Each number represents the I/O port address - 320-32F, 340-34F, and 360-36F respectively.

   The default setting is **/P:320**

   /G Add this to the end of the line, if you want to enable game port

   The config.sys file example

```
LASTDRIVE=Z
DEVICE=C:\DOS\HIMEM.SYS
DEVICE=C:\DOS\EMM386.EXE NOEMS X=D000-D3FF
FILES=40
BUFFERS=20
STACKS=9,256
DEVICE=C:\CDROM\EXPCDG.EXE /P:320 /G
```

If you use the memory manager just like the example above (EMM386.exe). You need to exclude the memory range for the hard disk card and X=D000-D3FF is recommended.

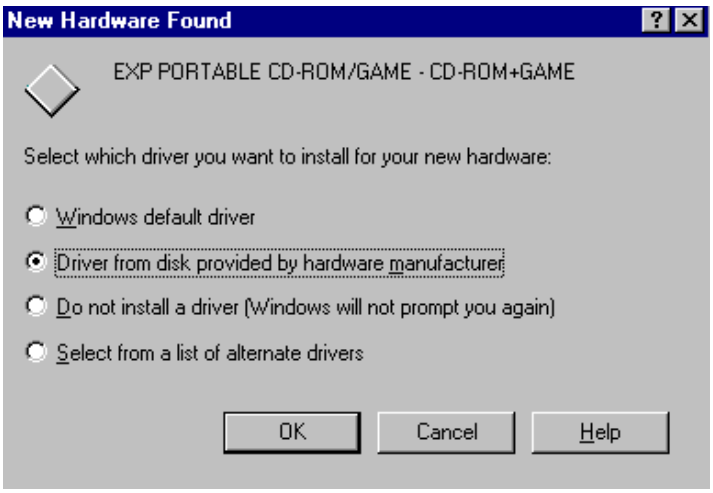
3.) Reboot the system so the new driver will take effect.

SOFTWARE INSTALLATION FOR WINDOWS 95

The following dialog box will appear when you are using the **CD-ROM+** card under Windows 95 for the very first time.

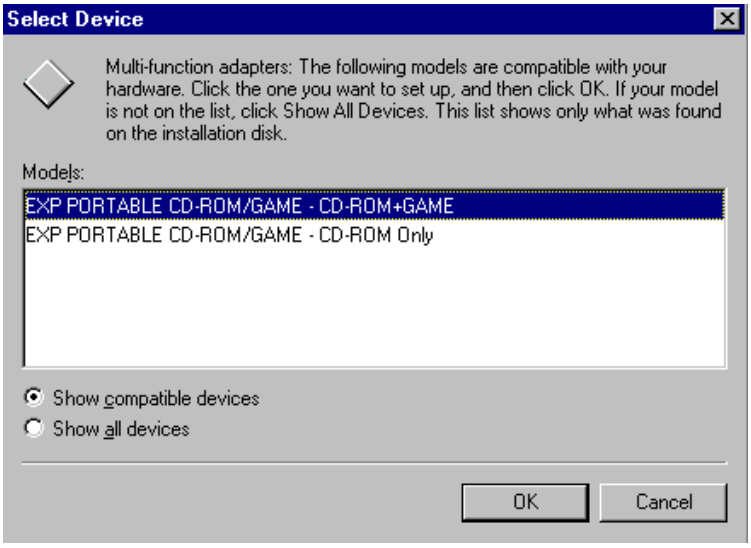
If the dialog box does not appear, either you have to remove the old driver installed before or the PCMCIA driver is not activated, please refer to the section titled "**Enabling 32-Bit Card Support**" or "**Removing and Reinstalling the Driver**".

Select "Driver from disk provided by hardware manufacturer" and click on the OK button, Windows 95 will then prompt you to insert the manufacturer's installation disk. Insert the device driver disk into your floppy drive. Specify the directory as A:\ or B:\, whichever drive contains the diskette and select OK.



When the next dialog box appears, select "**Portable CD-ROM**" or "**Portable CD-ROM + Game** " and click on the OK bottom.

Follow the on-screen instruction to continue. After finishing, you need to calibrate your joystick or game-pad before you use it.



REMOVING OR RE-INSTALLING THE DEVICE DRIVER

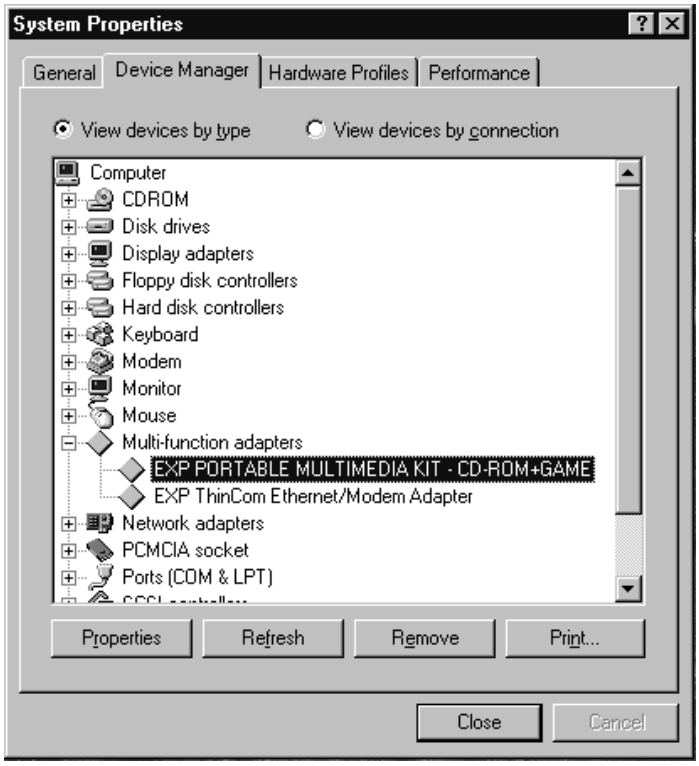
You can always change your configuration by removing the driver and reinstalling again. To remove the driver -

A.) If previously installed as " **CD-ROM Only**":

With the CD-ROM drive connected, go to the Control Panel, click on System, then choose "Device Manager", and under "hard disk controllers" click the "+" sign to expand the list and then highlight the "**EXP PORTABLE CD-ROM**". Then click the "Remove" button.

B.) If previously installed as "**CD-ROM + GAME**":

With the CD-ROM drive connected, go to the Control Panel. Click on "System". Then choose "Device Manager, under "Multifunction adapters" click at the "+" sign to expand this list and then highlight **"EXP PORTABLE MULTIMEDIA KIT: CD-ROM+GAME**", then click the "Remove" button.



BASIC OPERATING PROCEDURES

Follow the instructions listed below to open the disc cover and insert/remove a CD.

1. Press the OPEN button. The disc cover will open slightly, and the ON/BUSY LED will blink as a warning signal.
2. If there is no disc inside, go to next step. Otherwise, wait until the drive stops spinning. You may check if the disc stop by looking through the disc cover window.
3. Lift the disc cover by the edges as shown in Figure 24.

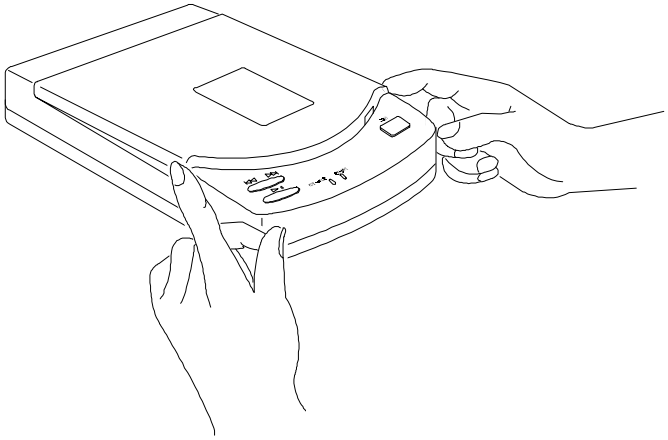


Figure 24

4. Insert the disc with the label side facing up or remove the disc.
5. Close the disc cover.

CAUTION
Do not lift the disc cover until the drive stop spinning. Failure to do so may damage the CD disc.

USING THE PCMCIA CD-ROM AS A STAND-ALONE CD PLAYER

In a stand-alone audio CD player operation, the CD need either the AC adapter or batteries for its power source, remember to set the POWER SOURCE SWITCH to "DC/BATT". Refer to the section titled "CD-ROM POWER SOURCE" for details.

It is not necessary to remove the PCMCIA interface card from the CD-ROM drive when the CD-ROM is in stand-alone mode. You may store the card in the card holder at the back panel of the drive.

The following control buttons will be used in stand-alone mode.

— Power Button

- Press the POWER button will turn on the PCMCIA CD-ROM in stand-alone mode. Press the POWER button again will turn off the drive.
- The PCMCIA CD-ROM will spin in a lower speed (single speed) in stand-alone mode.
- As another power saving feature, the PCMCIA CD-ROM will be automatically turned off if it has not played for apporximately 40 seconds.

— Play/Pause Button

- Press this button will activate the drive to begin playing.
- If the drive is in play state, pressing this button will make it pause.
- This button will work in the audio CD playing mode only..

— Next/Previous Button

- In the play state, press the right edge of the button to skip to the next track.
- Press the left edge of the button to skip to the previous track.
- This button will work in the audio CD playing mode only..

— Volume Control Knob

- Use this knob to adjust the headphone volume.

 **— Headphone Jack**

- Connect your headphone to his jack for listening to audio CD.

— Line-Out Jack

- Connect this jack to the LINE-IN jack of the sound card in your computer or an amplifier with a 3.5 mm audio cable for better sound quality from the audio CD.

USING THE PCMCIA CD-ROM WITH A COMPUTER

Check the power source switch set it according to the power source.

PCMCIA Socket => PC

AC adapter or Battery => DC/BATT

(Make sure the AC adapter is properly connected or the batteries are installed)

CAUTION

Connect the PCMCIA interface cable to CD-ROM drive before inserting the PCMCIA interface card into your computer. DO NOT connect/disconnect the PCMCIA interface cable to/from the CD-ROM drive while the card is inserted and the system is in power-on state.

Once the PCMCIA card is initialized, the computer will control the power to the PCMCIA CD-ROM drive. As a result, the POWER button at the rear panel will not functioning in this mode. The drive will remain inactive until the first command from the computer is accepted, then the drive will begin to spin to reach its highest speed. DO NOT CHANGE THE POWER SOURCE SWITCH WHEN THE PCMCIA CD-ROM IS POWERED ON.

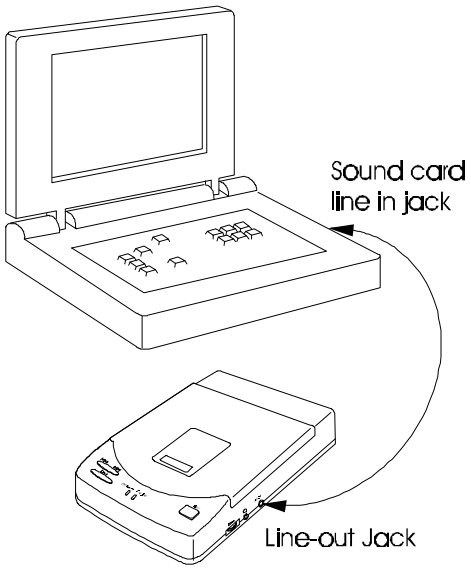
Play an Audio CD by Using Software

You can use the CD audio software utilities in Windows 3.1, OS/2 or Windows 95 etc. to play the audio CD on your PCMCIA CD-ROM.

To play audio CD by using Media Player in Windows 3.1, for example,

1) Check if the [MCI] CD Audio driver is installed.

2) Choose the Drivers icon from Control Panel, and choose the Add button to set up the driver [MCI] CD Audio.
3) Start the Media Player.
4) Select Device CD Audio from the menu bar.
5) Click the play button on the screen to start it.
6) Connect headphones set to the Headphone Jack
7) If your computer is equipped with a sound card, you can also connect the LINE-OUT jack of your CD-ROM to the LINE-IN jack of the sound card with a 3.5 mm audio cable. This will result in a better audio output from the speakers of the sound card.



The PLAY/PAUSE, NEXT/PREVIOUS buttons will still work in CD-ROM mode. However, these buttons should be used in audio CDs playing mode ONLY. Using these buttons other than playing audio CDs will cause an error. Also, do use these buttons along with a CD audio software utilities. Otherwise, incorrect information may be reported by the CD audio software.

INSTALL A CD TITLE

DOS/Windows 3.x

Most of the CD-ROM titles for Windows 3.1/3.11 contain the SETUP.EXE or INSTALL.EXE program in the CD disc. You need to start either one of the programs to add a Program Group and its icons into your computer, and perform the following,

1) In Program Manager click File => Run
2) Type in **D:** (or the drive letter assigned for CD-ROM) **SETUP.EXE** or **INSTALL.EXE**
3) Follow the on-screen instructions.
4) After complete setting up, click the icon for the program.

Windows 95

The CD-ROM for the Windows 95 titles include the AUTO RUN feature. This means when you close the disc cover with this type of CD disc inside, Windows 95 will start the opening screen automatically. You can add the program, browse content of the CD, etc. from this screen.

The other procedure is from 'Control Panel' click on 'Add/Remove Programs' icon, click on 'Install' button then follow the on screen instruction.

Hot Insert/Remove the PCMCIA CD-ROM

The PCMCIA interface specification define that you may hot insert/remove the PCMCIA interface card, which means to insert, remove or exchange the card from your system at any time without rebooting or turning off your system.

However, for any given system, the PCMCIA CD-ROM, being a storage device itself, can not be hot removed when it is in use by a program. To avoid some sort of system failure, read the following carefully before using hot-removing technology.

DOS/Windows 3.X

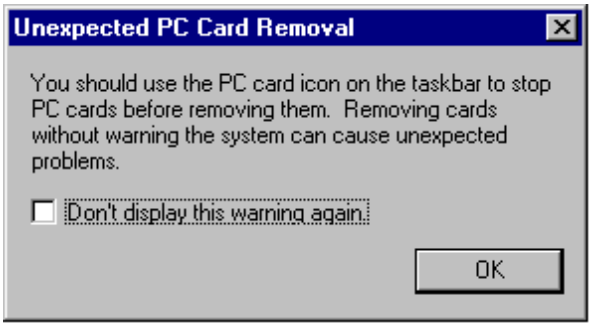
you are allowed to hot insert/remove the PCMCIA CD-ROM **ONLY** when your computer is loaded with a PCMCIA software which is ExCA compliant. If your system doesn't have such software, it is necessary to connect the PCMCIA CD-ROM first before your computer is being booted. Do not hot remove the card when the CD-ROM is accessing the data particularly in OS/2 system.

Windows 95

The hot-swapping is allowed with more limitation. To avoid system failure, always follow the below steps to hot remove the PCMCIA CD-ROM in Windows 95,

1) Click the PC card indicator on the task bar at the right bottom of screen.
2) Click the command to stop the card you want to remove.
3) Read the screen prompts instruction carefully. If the system prompts you not to remove the card, **DO NOT** remove the card. You should exit the present application and return to step 1.

Be sure you are removing the card by the procedures described above, otherwise, the following dialog will be displayed:



To display the PC card indicator on the task bar, perform the following steps,

1. Double-click the PC Card (PCMCIA) icon in the Control Panel.
2. Make sure that the box 'Show the control on task bar' is checked.

If the PC Card (PCMCIA) wizard appears when you click the button in step 1, complete the wizard. After restarting your computer, double-click the PC Card (PCMCIA) icon in the Control Panel, and then check the box to see the status indicator on the task bar.

NOTICE

- While operating the CD-ROM, the speed of your computer's CPU and display card will dominate the overall performance, especially when playing full motion video. Slow display speed often causes "still frames".
- To play the sound portion of Multimedia CD Titles, your computer must be equipped with a sound card.

INSTALLING THE CD-ROM WITH THE GAME PORT ADAPTER (FOR CDG-820 MODEL ONLY)

① **CD-ROM Connector:**

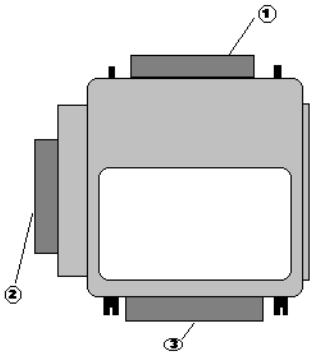
This connector connects to the CD-ROM drive.

② **Game Port:**

This port connects to a joystick or game-pad.

③ **PC Card Connector:**

Connector to the PCMCIA(PC Card) interface card - **CD-ROM+** card



1. Connect the game adapter to your CD-ROM drive, and tighten the two screws on the game adapter.
2. Connect a joystick or game-pad to game port
3. Connect the PCMCIA interface card to the Game Adapter, and then tighten the two screws on the cable connector.
4. Place your CD-ROM drive in the horizontal position. Your CD-ROM drive is designed to operate only in the horizontal position. Operating the CD-ROM drive in any abnormal position is not recommended.
5. Locate the PCMCIA slot on your computer or consult your computer user's manual for its location.
6. Align the PCMCIA interface card with the arrow sign pointing toward the computer's slot. (Please note that the card is keyed to guide for proper insertion.)
7. Slowly insert the PCMCIA interface card into the slot and press firmly until the connector is seated.
8. Turn your system ON and install the CD TRAVELER device driver. Please follow the Software Installation procedures to follow.

Incompatible List

The following notebooks have been tested and has been confirmed as incompatible with the Game Port connected to the CD-ROM kit:

Dell	**Latitude LM**
Gateway 2000	**Solo 2100**
IBM	**Thinkpad 760, Thinkpad 365CS**
Micron	**Millennia**
NEC	**Versa 2450**
TI	**TravelMate 4000M**

If your notebook already has a built-in game port, due to the I/O conflict, you will NOT be able to use the Game Port adapter.

For the latest update, please check our Web site at
www.expnet.com

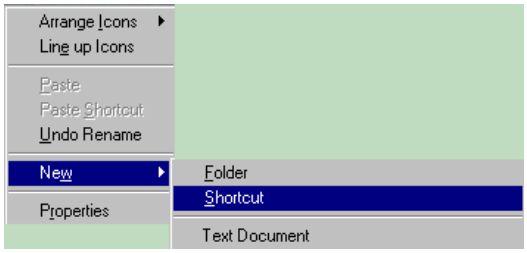
APPENDIX B

The following procedures will allow you to use the device in a pure MS-DOS environment for those applications that will not run in Windows 95

An MS-DOS mode icon is set up with a separate config.sys and autoexec.bat which will be run when the icon is used.

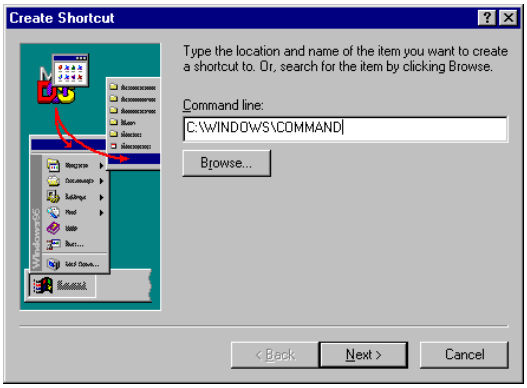
The requirements are that your system's PCMCIA controller has to be INTEL (PCIC) and compatible or the DOS PCMCIA socket drivers(contact your notebook manufacturer) are loaded before the EXP device DOS drivers.

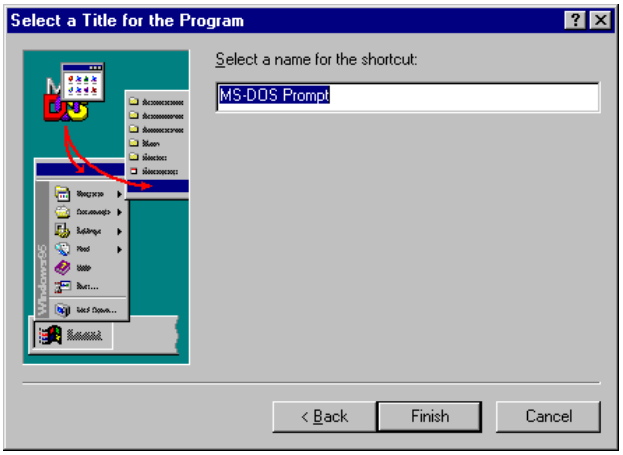
If above requirements are met, please proceed with the following:



- Click on the right mouse button onto the desktop's empty area
- Go to "New", then choose "Shortcut"

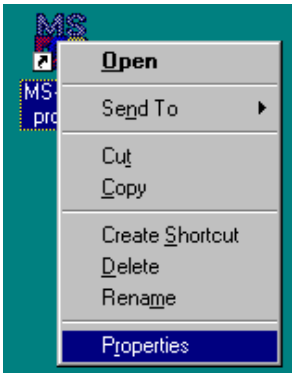
- Type in at the Command line - "C:\WINDOWS\COMMAND"
- Click on "Next"

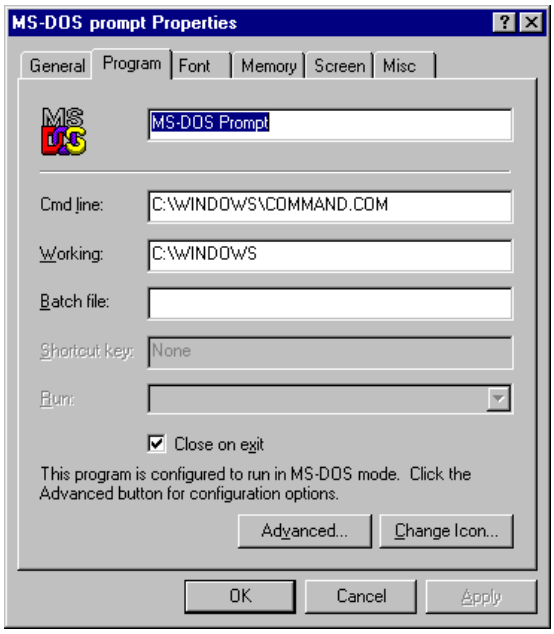




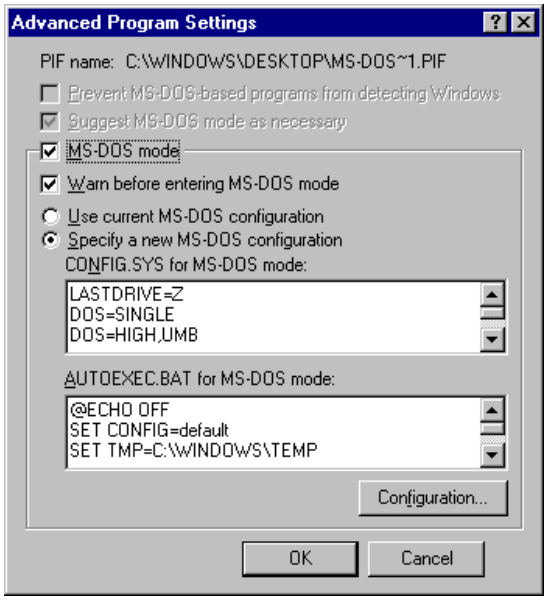
- Click on "Finish"

- Click on the right mouse button on the new MS-DOS Prompt icon
- Go to "Properties"
- Go to "Program"





- Click on the "Advanced"

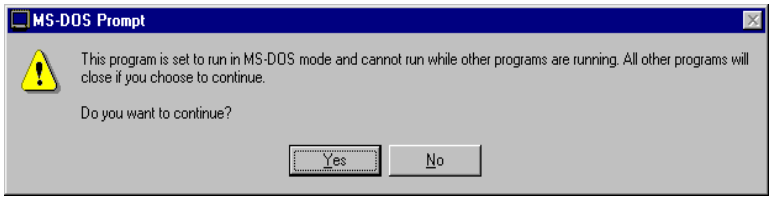


- Click the "MS-DOS mode" Click on "Specify a new MS-DOS configuration"
- Click on "OK". Then click "OK" again. This is the end of the DOS mode icon setup.

- The Next steps are to configure the DOS mode session for the DOS drivers that are needed to run the CD-ROM/Game card.
- If you have a config.dos and autoexec.dos file on the "C" drive. Just put the lines that are missing in the corresponding boxes. If you do not have these files just continue without it. This just means that certain devices may not function without first loading the DOS drivers for this DOS mode session.

- Double click on the new MS-DOS prompt icon 

- Click on "YES"



- Once the computer is started in this mode, you can then install the DOS driver.

- Run the Installation program for the DOS drivers from EXP's disk.

- More detailed instructions on "SOFTWARE INSTALLATION FOR DOS/WINDOWS 3.1" can be found under 'Automatic installation'

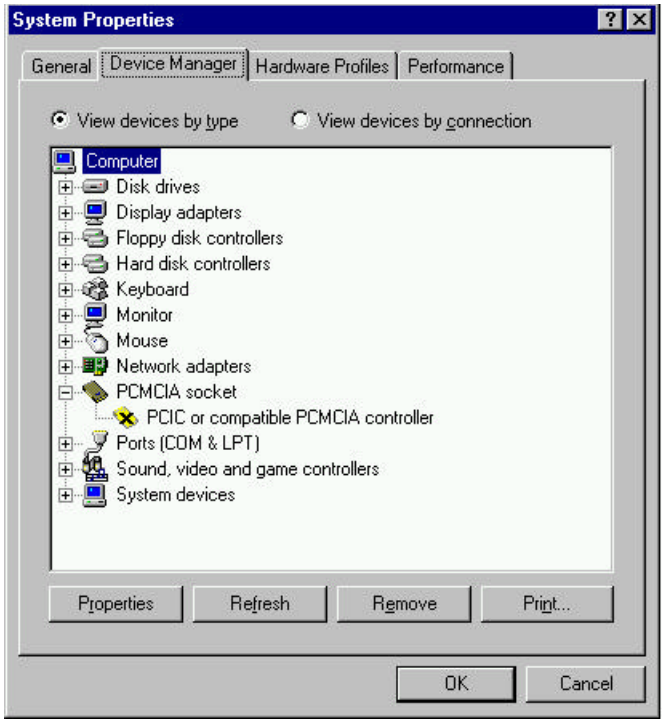
- To restart Windows 95 normally, type in EXIT at the command prompt and press "Enter".

APPENDIX C

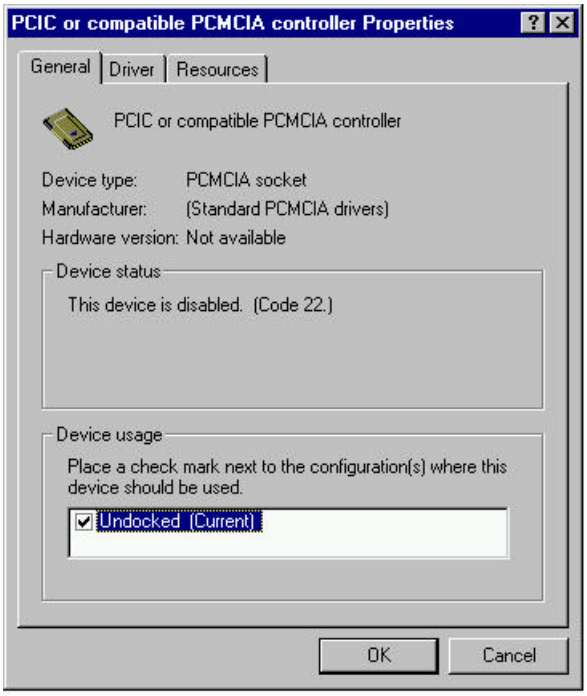
ENABLING 32-BIT CARD SUPPORT OF WINDOWS 95

Your system should be ready for PCMCIA socket support prior to operating the CD-ROM and Game Port. To check whether your computer is PCMCIA Socket supported, first, double-click on the "System" icon from the "Control Panel" folder (you can select the "Control Panel" under "Settings" from the "Start" menu to open the "Control Panel" folder).

Click on the Device Manager Tab. If "PCMCIA Socket" is found with a cross (x) sign next to the PCMCIA Controller as the Figure shows below, it means the PCMCIA device driver is not using 32-Bit Card Support.



In this case, double click on the PCMCIA Controller, and a dialog box will be displayed as below. Please place a check mark next to the current configuration of the Device usage box, and then select OK.



After the PCMCIA 32-Bit Card support is installed, Windows will then ask you to reboot your computer. You should now refer to the first section in the manual entitled “Software Installation For Windows 95” to configure the CD-ROM and Game Port.

If the PCMCIA Socket is not found, then you must first add a PCMCIA socket to your system. Please click on the “Add New Hardware” icon in the Control Panel folder and select “PCMCIA socket”. Select the appropriate type of PCMCIA Controller that matches yours and follow the on-screen instructions.

APPENDIX D

PCMCIA SOFTWARE(DOS/WINDOWS3.X) INFORMATION

If you have installed the PCMCIA software, such as SystemSoft's CardSoft or Databook's Cardtalk, then EXPCDG.EXE will call these PCMCIA software to enable the card. If you don't have one, EXPCDG.EXE still can directly access your hardware to enable the card. In this case, your computer should have an Intel 82365SL Personal Computer Interface Controller (PCIC) or another compatible controller.

PCMCIA software contains several components: Socket services, Card services, Resource Initialization Utility and Card Installation Utility. The remainder of this section will explain the four components and list the device driver names for the major PCMCIA software.

Socket Services provide the interface between a system's BIOS and the host controller chips (such as the Intel 82365SL PCIC, Vadem 468, etc) Socket Services includes functions such as configuring a socket for an I/O or memory interface and controlling socket power voltages. The Socket Services driver you have varies with the host computer chip of your computer.

Card Services provides the interface between the PC Card and the PCMCIA sockets. Card Services must be aware of the I/O, IRQ, and memory resources already used by the system so it can accurately assign unused resources to the PC Cards.

To ensure Card Services will operate reliably regardless of the system it is installed on, some PCMCIA software provides its own resource initialization utility, which will check I/O ports, IRQs, and memory addresses and then report that information to Card Services.

The Card Installation Utility detects the insertion and removal of PC cards, and automatically determines the card type upon insertion so the card and socket will be configured properly.

The device driver names of the major PCMCIA software are listed below:

Software/Device Driver	SystemSoft CardSoft	Phoenix	Award Cardware	IBM ThinkPad
Socket Services	SS365SL.EXE, SS365LP.EXE, SSCIRRUS.EXE, SSDBOOK.EXE, SVADEM.EXE, SSVLSI.EXE	PCMSS.EXE	SSPCIC.EXE	IBMDSS02.SYS
Card Services	CS.EXE	PCMCS.EXE	PCCS.EXE	IBMDOSCS.SYS
Resource Initialization Utility	CSALLOC.EXE	PCMRMAN.SYS	PCRM.EXE	DICRMU02.SYS
IDE/ATA Driver	ATADRV.EXE	PCMATA.SYS		
SRAM Card Driver	MTSRAM.EXE			
Flash Card Support	MTAA.EXE, MTAB.EXE, MTI1,EXE MTI2P.EXE			
Memory Card Driver	MEMDRV.EXE			
Card Installation Utility	CARDID.EXE	PCMSCD.EXE	PCENABLE.EXE	AUTODRV.SYS
Card Services Power Management	CS_APM.EXE			$ICPMDOS.SYS

If you are not sure which PCMCIA software you are using, you may check it by typing **`TYPE CONFIG.SYS`** at the DOS prompt followed by the ENTER key. The file should come up and look like one of the following examples.

SYSTEMSOFT PCMCIA SOFTWARE SAMPLE CONFIG.SYS FILE

```
LASTDRIVE=Z
DEVICE=C:\DOS\HIMEM.SYS
DEVICE=C:\DOS\EMM386.EXE NOEMS X=D000-D3FF
FILES=40
BUFFERS=20
STACKS=9,256
DEVICEHIGH=C:\CARSOFT\SS36SSL.EXE
DEVICEHIGH=C:\CARDSOFT\CS.EXE
DEVICEHIGH=C:\CARDSOFT\CSALLOC.EXE
REM** The REM's should be removed from thefollwing
REM** lines to enable memory and hard drive card support
REM** DEVICEHIGH=C:\CARDSOFT\ATADRV.EXE
REM** DEVICEHIGH=C:\CARDSOFT\MTSRAM.EXE
REM** DEVICEHIGH=C:\CARDSOFT\MTDDRV.EXE
DEVICEHIGH=C:\CARDSOFT\CARDID.EXE
REM CDROM+GAME I/O 320-32F, GAME ENABLE
DEVICE=C:\CDROM\EXPCDG.EXE /P:320 /G
```

PHOENIX PCMCIA SOFTWARE SAMPLE CONFIG.SYS FILE

```
LASTDRIVE=Z
DEVICE=C:\DOS\HIMEN.SYS
DEVICE=C:\DOS\EMM386.EXE NOEMS X=D000-D3FF
DOS=HIGH, UMB
STACKS=9,256
DEVICE=c:\PCMPLUS3\CNFIGNAME.EXE/DEFAULT
DEVICE=C:\PCMPLUS3\PCMSS.EXE
DEVICE=C:\PCMPLUS3\PCMCS.EXE
DEVICE=C:\PCMPLUS3\PCMRMAN.EXE
DEVICE=C:\PCMPLUS3\PCMSCD.EXE
REM CDROM+GAME I/O 340-34F, GAME DISABLE
DEVICE=C:\CDROM\EXPCDG.EXE /P:340
```

AWARD PCMCIA SOFTWARE SAMPLE CONFIG.SYS FILE

```
LASTDRIVE=Z
DEVICE=C:\DOS\HIMEN.SYS
DEVICE=C:\DOS\EMM386.EXE NOEMS X=D000-D3FF
FILES=40
BUFFERS:20
```

```
STACKS=9,256
DEVICE=C:\CARDWARE\SSPCIC.EXE
DEVICE=C:\CARDWARE\PCCS.EXE
DEVICE=C:\CARDWARE\PCRM.EXE/AUTODETECT
DEVICE=C:\CARDWARE\PCENABLE.EXE
REM CDROM+GAME I/O 320-32F, GAME DISABLE
DEVICE=C:\CDROM\EXPCDG.EXE /P:320
```

IBM PCMCIA SOFTWARE SAMPLE CONFIG.SYS FILE

```
LASTDRIVE=Z
DEVICEHIGH=C:\DOS\HIMEN.SYS/TESTMEM:OFF /MACHINE:2
DEVICEHIGH=C:\DOS\EMM386.EXE NOEMS X=D000-DFFF
BUFFERS=40
FILES=40
STACKS=9,256
DOS=HIGH
DEVICEHIGH=C:\THINKPAD\IBMDSS02.SYS /S0=2
DEVICEHIGH=C:\THINKPAD\IBMDOSCS.SYS
DEVICEHIGH=C:THINKPAD\DICRMU02.SYS /MA=D000-DFFF
DEVICEHIGH=C:\THINKPAD\$ICPMDOS.SYS
DEVICE=C:\THINKPAD\AUTODRV.SYS C:\THINKPAD\AUTODRV.INI
REM CDROM+GAME I/O 320-32F, GAME ENABLE
DEVICE=C:\CDROM\EXPCDG.EXE /P:320 /G
```